

<b>Project Title:</b>	Roles of the RecQ Helicases BLM and RECQL in Genome Maintenance
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Publication Title	Authors	Journal (Pub date)	Volume/Page	PubMed Link
53BP1, BRCA1, and the choice between recombination and end joining at DNA double-strand breaks.	Daley, James M; Sung, Patrick	Mol Cell Biol (2014 Apr)	34 / 1380-8	<a href="#">PubMed Citation</a>
A variant of the breast cancer type 2 susceptibility protein (BRCA) repeat is essential for the RECQL ...	Islam, M Nurul; Paquet, Nicolas; Fox 3rd, David; Dray, Eloise; Zheng, Xiao-Feng; Klein, Hannah; Sung, Patrick; Wang, Weidong	J Biol Chem (2012 Jul 06)	287 / 23808-18	<a href="#">PubMed Citation</a>
Assay for human Rad51-mediated DNA displacement loop formation.	Raynard, Steven; Sung, Patrick	Cold Spring Harb Protoc (2009 Jan)	2009 / pdb.prot5120	<a href="#">PubMed Citation</a>
Biochemical mechanism of DSB end resection and its regulation.	Daley, James M; Niu, Hengyao; Miller, Adam S; Sung, Patrick	DNA Repair (Amst) (2015 Aug)	32 / 66-74	<a href="#">PubMed Citation</a>
BLAP18/RMI2, a novel OB-fold-containing protein, is an essential component of the Bloom helicase-dou ...	Singh, Thiyam Ramsing; Ali, Abdullah Mahmood; Busygina, Valeria; Raynard, Steven; Fan, Qiang; Du, Chang-hu; Andreassen, Paul R; Sung, Patrick; Meetei, Amom Ruhikanta	Genes Dev (2008 Oct 15)	22 / 2856-68	<a href="#">PubMed Citation</a>
Crystal structures of RMI1 and RMI2, two OB-fold regulatory subunits of the BLM complex.	Wang, Feng; Yang, Yuting; Singh, Thiyam Ramsing; Busygina, Valeria; Guo, Rong; Wan, Ke; Wang, Weidong; Sung, Patrick; Meetei, Amom Ruhikanta; Lei, Ming	Structure (2010 Sep 8)	18 / 1159-70	<a href="#">PubMed Citation</a>

Differential regulation of the anti-crossover and replication fork regression activities of Mph1 by ...	Xue, Xiaoyu; Papusha, Alma; Choi, Koyi; Bonner, Jaclyn N; Kumar, Sandeep; Niu, Hengyao; Kaur, Hardeep; Zheng, Xiao-Feng; Donnianni, Roberto A; Lu, Lucy; Lichten, Michael; Zhao, Xiaolan; Ira, Grzegorz; Sung, Patrick	Genes Dev (2016 30 / 687-99 Mar 15)	PubMed Citat
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Enrichment of Cdk1-cyclins at DNA double-strand breaks stimulates Fun30 phosphorylation and DNA end ...	Chen, Xuefeng; Niu, Hengyao; Yu, Yang; Wang, Jingjing; Zhu, Shuangyi; Zhou, Jianjie; Papusha, Alma; Cui, Dandan; Pan, Xuewen; Kwon, Youngho; Sung, Patrick; Ira, Grzegorz	Nucleic Acids Res (2016 Apr 7) 44 / 2742-53	PubMed Citat
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MHF1-MHF2, a histone-fold-containing protein complex, participates in the Fanconi anemia pathway via ...	Singh, Thiyam Ramsing; Saro, Dorina; Ali, Abdullah Mahmood; Zheng, Xiao-Feng; Du, Chang-hu; Killen, Michael W; Sachpatzidis, Aristidis; Wahengbam, Kebola; Pierce, Andrew J; Xiong, Yong; Sung, Patrick; Meetei, Amom Ruhikanta	Mol Cell (2010 Mar 26)	37 / 879-86	PubMed Citat

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Processing of DNA structures via DNA unwinding and branch migration by the <i>S. cerevisiae</i> Mph1 protein	Zheng, Xiao-Feng; Prakash, Rohit; Saro, Dorina; Longerich, Simonne; Niu, Hengyao; Sung, Patrick	DNA Repair (Amst) (2011 Oct 10)	10 / 1034-43	PubMed Citation
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RAD51-associated protein 1 (RAD51AP1) interacts with the meiotic recombinase DMC1 through a conserved interface	Dunlop, Myun Hwa; Dray, Eloïse; Zhao, Weixing; Tsai, Miaw-Sheue; Wiese, Claudia; Schild, David; Sung, Patrick	J Biol Chem (2011 Oct 28)	286 / 37328-34	PubMed Citation
RECQL5/Recql5 helicase regulates homologous recombination and suppresses tumor formation via disrupting the RPA1 protein	Hu, Yiduo; Raynard, Steven; Sehorn, Michael G; Lu, Xincheng; Bussen, Wendy; Zheng, Lu; Stark, Jeremy M; Barnes, Ellen L; Chi, Peter; Janscak, Pavel; Jasinska, Maria; Vogel, Hannes; Sung, Patrick; Luo, Guangbin	Genes Dev (2007 Dec 1)	21 / 3073-84	PubMed Citation

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